

ABSTRACT OF DISCLOSURE

An encoding and decoding apparatus and method thereof includes first and second soft encoders, a transmission channel, and first and second soft decoders. The first soft encoder performs a first soft encoding of input data to correct errors in the input data and outputting first soft-encoded data. The second soft encoder receives the first soft-encoded data, performs a second soft encoding to determine a success or failure of the encoding of the first soft-encoded data, and outputs second soft-encoded data. The first soft decoder soft-decodes data input through a transmission channel and corresponds to the second soft encoding, and outputs first soft-decoded data. The second soft decoder receives the first soft-decoded data, soft-decodes the first soft-decoded data corresponding to the first soft encoding, and outputs second soft-decoded data and additional information indicating the success or failure of the decoding of the first soft-decoded data.